We claim the following:

1. A device for delivering a desired medium at certain temperature ranges for temperature management of a mammal, comprising:

an inlet source receives the desired medium and directs the desired medium to a temperature-control device;

a bio-feedback device measures the mammal's actual temperature, and transmits the measurement to the temperature-control device;

depending on the measurement, the temperature-control device alters the temperature of the desired medium; and

an outlet source directs the desired medium to manage the temperature of the mammal;

wherein the mammal is to have its temperature set to a predetermined-desired temperature which is entered into the temperature-control device;

wherein when the actual temperature is above the predetermined-desired temperature, the temperature-control device alters the temperature of the desired medium to a predetermined differential from the actual temperature; and

wherein when the actual temperature is below the predetermined-desired temperature, the temperature-control device alters the temperature of the desired medium to a pre-set differential from the actual temperature.

2. The device of claim 1 wherein the desired medium is water.

3. The device of claim 1 wherein the desired medium is air.

4. The device of claim 1 wherein the predetermined differential ranges from 0.1 to 35 degrees Celsius below the actual temperature.

5. The device of claim 1 wherein the predetermined differential ranges from 5 to 15 degrees Celsius below the actual temperature.

6. The device of claim 1 wherein the pre-set differential ranges from 0.1 to 35 degrees Celsius above the actual temperature, so long as the temperature-control device does not alter the temperature of the desired medium above a predetermined-maximum temperature.

7. The device of claim 1 wherein the pre-set differential ranges from 5 to 15 degrees Celsius above the actual temperature.

8. The device of claim 6 wherein the predetermined-maximum temperature is 0.1 to 10 degrees Celsius above a predetermined-healthy temperature of the mammal.

9. The device of claim 6 wherein the predetermined-maximum temperature is about 5 degrees Celsius above a predetermined-healthy temperature of the mammal.

~~10~~ 19. A device for delivering a desired medium within a desired temperature range for temperature management of a mammal, comprising:

an inlet source receives the desired medium and directs the desired medium to a temperature-control device;

a bio-feedback device measures the mammal's actual temperature, and transmits the measurement to the temperature-control device;

depending on the measurement, the temperature-control device alters the temperature of the desired medium; and

an outlet source directs the desired medium to manage the temperature of the mammal;

wherein the mammal has a predetermined-healthy temperature which is entered into the temperature-control device;

wherein when the actual temperature is above the predetermined-healthy temperature, the temperature-control device alters the temperature of the desired medium to a predetermined differential from the actual temperature;

wherein when the actual temperature is below the predetermined-healthy temperature, the temperature-control device alters the temperature of the desired medium to a pre-set differential from the actual temperature; and

wherein when the actual temperature is about the predetermined-healthy temperature, the temperature-control device alters the temperature of the desired medium to maintain the actual temperature.

20 19
11. The device of claim 10 wherein the desired medium is water.

21 19
12. The device of claim 10 wherein the desired medium is air.

22 19
13. The device of claim 10 wherein the predetermined differential ranges from 0.1 to 35 degrees Celsius below the actual temperature.

23 19
14. The device of claim 10 wherein the predetermined differential ranges from 5 to 15 degrees Celsius below the actual temperature.

24 19
15. The device of claim 10 wherein the pre-set differential ranges from 0.1 to 35 degrees Celsius above the actual temperature, so long as the temperature-control device does not alter the temperature of the desired medium above a predetermined-maximum temperature.

27 19
16. The device of claim 10 wherein the pre-set differential ranges from 5 to 15 degrees Celsius above the actual temperature.

25 24
17. The device of claim 15 wherein the predetermined-maximum temperature is 0.1 to 10 degrees Celsius above the predetermined-healthy temperature.

26 24
18. The device of claim 15 wherein the predetermined-maximum temperature is about 5 degrees Celsius above the predetermined-healthy temperature.

28 19
~~19~~. The device of claim ~~1~~0 wherein the pre-selected differential is from 0.01 to 5 degrees Celsius above and below the predetermined-healthy temperature.

10
~~20~~. The device of claim 1 wherein the temperature-control device is a heat transfer unit with a temperature-measurement instrument.

29 19
~~21~~. The device of claim ~~1~~0 wherein the temperature-control device is a heat transfer unit with a temperature-measurement instrument.

11
~~22~~. The device of claim 1 wherein the outlet source directs the desired medium into a blanket.

30 19
~~23~~. The device of claim ~~1~~0 wherein the outlet source directs the desired medium into a blanket.

12 11
~~24~~. The device of claim ~~22~~ wherein the blanket has a plurality of channels.

31 30
~~25~~. The device of claim ~~23~~ wherein the blanket has a plurality of channels.

13 11
~~26~~. The device of claim ~~22~~ wherein the blanket has a plurality of apertures directing the desired medium in the direction of the mammal.

32 30
~~27~~. The device of claim ~~23~~ wherein the blanket has a plurality of apertures directing the desired medium in the direction of the mammal.

14
28. The device of claim 1 wherein the outlet source directs the desired medium under a blanket.

33 19
29. The device of claim 10 wherein the outlet source directs the desired medium under a blanket.

37
30. A method of using a device for delivering a desired medium within a selected temperature range for temperature management of a mammal, comprising following steps:

directing the desired medium into an inlet source and a temperature-control device;

measuring the mammal's actual temperature with a bio-feedback device, and transmitting the measurement to the temperature-control device;

depending on the measurement, altering the temperature of the desired medium with the temperature-control device;

directing the desired medium through an outlet source to manage the temperature of the mammal;

wherein the mammal is to have its temperature adjusted to a predetermined-desired temperature which is entered into the temperature-control device;

wherein when the actual temperature is above the predetermined-desired temperature, the temperature-control device alters the temperature of the desired medium to a predetermined differential from the actual temperature; and

wherein when the actual temperature is below the predetermined-desired temperature, the temperature-control device alters the temperature of the desired medium to a pre-set differential from the actual temperature.

38 37
31. The method of claim 30 wherein the desired medium is water.

39 37
32. The method of claim 30 wherein the desired medium is air.

40 37
33. The method of claim 30 wherein the predetermined differential ranges from 0.1 to 35 degrees Celsius below the actual temperature.

41 37
34. The method of claim 30 wherein the predetermined differential ranges from 5 to 15 degrees Celsius below the actual temperature.

42 37
35. The method of claim 30 wherein the pre-set differential ranges from 0.1 to 35 degrees Celsius above the actual temperature, so long as the temperature-control device does not alter the temperature of the desired medium above a predetermined-maximum temperature.

45 37
36. The method of claim 30 wherein the pre-set differential ranges from 5 to 15 degrees Celsius above the actual temperature.

43 42
37. The method of claim 35 wherein the predetermined-maximum temperature is 0.1 to 10 degrees Celsius above a predetermined-healthy temperature of the mammal.

44 42
38. The method of claim 35 wherein the predetermined-maximum temperature is about 5 degrees

Celsius above a predetermined-healthy temperature of the mammal.

46 37
39. The method of claim 30 wherein the pre-selected differential is from 0.01 to 5 degrees Celsius above and below the predetermined-healthy temperature.

47 37
40. The method of claim 30 wherein the temperature-control device is a heat transfer unit with a temperature-measurement instrument.

48 37
41. The method of claim 30 wherein the outlet source directs the desired medium into a blanket.

49 48
42. The method of claim 41 wherein the blanket has a plurality of channels.

50 48
43. The method of claim 41 wherein the blanket has a plurality of apertures directing the desired medium in the direction of the mammal.

51 37
44. The method of claim 30 wherein the outlet source directs the desired medium under a blanket.

34 19
45. The device of claim 10 wherein the outlet source directs the desired medium to a mattress.

15
46. The device of claim 1 wherein the outlet source directs the desired medium to a mattress.

52 37
47. The method of claim 30 wherein the outlet source directs the desired medium to a mattress.

35 19
48. The device of claim 10 wherein the outlet source directs the desired medium to a mattress pad.

16
49. The device of claim 1 wherein the outlet source directs the desired medium to a mattress pad.

53 37
50. The method of claim 30 wherein the outlet source directs the desired medium to a mattress pad.

17
51. The device of claim 1 wherein the temperature-control device can alter the temperature of the desired medium at a predetermined rate.

36 19
52. The device of claim 10 wherein the temperature-control device can alter the temperature of the desired medium at a predetermined rate.

54 37
53. The method of claim 30 wherein the temperature-control device can alter the temperature of the desired medium at a predetermined rate.

56
54. A device for delivering a desired medium at certain temperature ranges for temperature management of a mammal, comprising:

an inlet source receives the desired medium and directs the desired medium to a temperature-control device;

a bio-feedback device measures the mammal's actual temperature, and transmits the measurement to the temperature-control device;

depending on the measurement, the temperature-control device alters the temperature of the desired medium; and

an outlet source directs the desired medium to manage the temperature of the mammal;

wherein the mammal is to have its temperature set to a predetermined-desired temperature which is entered into the temperature-control device;

wherein when the actual temperature is above the predetermined-desired temperature, the temperature-control device alters the temperature of the desired medium at a predetermined rate; and

wherein when the actual temperature is below the predetermined-desired temperature, the temperature-control device alters the temperature of the desired medium at a predetermined rate.

57. The device of claim 56 wherein the desired medium is water.

58. The device of claim 56 wherein the desired medium is air.

59. The device of claim 56 wherein the predetermined differential ranges from 0.1 to 35 degrees Celsius below the actual temperature.

60. The device of claim 56 wherein the predetermined differential ranges from 5 to 15 degrees Celsius below the actual temperature.

61. The device of claim 56 wherein the pre-set differential ranges from 0.1 to 35 degrees Celsius above the actual temperature, so long as the temperature-control device does not alter the temperature of the

desired medium above a predetermined-maximum temperature.

60. The device of claim 56 wherein the pre-set differential ranges from 5 to 15 degrees Celsius above the actual temperature.

61. The device of claim 59 wherein the predetermined-maximum temperature is 0.1 to 10 degrees Celsius above a predetermined-healthy temperature of the mammal.

62. The device of claim 59 wherein the predetermined-maximum temperature is about 5 degrees Celsius above a predetermined-healthy temperature of the mammal.

63. The device of claim 56 wherein the temperature-control device alters the temperature of the desired medium to a pre-set differential from the actual temperature.

64. A device for delivering a desired medium at certain temperature ranges for temperature management of a mammal, comprising:

an inlet source receives the desired medium and directs the desired medium to a temperature-control device;

a bio-feedback device measures the mammal's actual temperature, and transmits the measurement to the temperature-control device;

depending on the measurement, the temperature-control device alters the temperature of the desired medium; and

an outlet source directs the desired medium to manage the temperature of the mammal;

wherein the mammal is to have its temperature set to a predetermined-desired temperature which is entered into the temperature-control device;

wherein when the actual temperature is above the predetermined-desired temperature, the temperature-control device alters the temperature of the mammal at a predetermined rate; and

wherein when the actual temperature is below the predetermined-desired temperature, the temperature-control device alters the temperature of the mammal at a predetermined rate.

74 73
~~65~~. The device of claim ~~64~~ wherein the desired medium is water.

75 73
~~66~~. The device of claim ~~64~~ wherein the desired medium is air.

76 73
~~67~~. The device of claim ~~64~~ wherein the predetermined rate ranges from 0.1 to 25 degrees Celsius per hour.

77 73
~~68~~. The device of claim ~~64~~ wherein the predetermined rate ranges from 1 to 15 degrees Celsius per hour.

18 73
69. The device of claim 64 wherein the temperature-control device is a heat transfer unit with a temperature-measurement instrument.

81 73
70. The device of claim 64 wherein the outlet source directs the desired medium into a blanket.

79 78
71. The device of claim 69 wherein the predetermined-maximum temperature is 0.1 to 10 degrees Celsius above a predetermined-healthy temperature of the mammal.

80 78
72. The device of claim 69 wherein the predetermined-maximum temperature is about 5 degrees Celsius above a predetermined-healthy temperature of the mammal.

82 73
73. The device of claim 64 wherein the temperature-control device alters the temperature of the desired medium to a pre-set differential from the actual temperature.

10
74. The device of claim 1 wherein the predetermined-desired temperature is selected from the group consisting of a temperature below the mammal's normal temperature, the mammal's normal temperature, and a temperature above the mammal's normal temperature.

83 73
75. The device of claim 64 wherein the predetermined-desired temperature is selected from the group consisting of a temperature below the mammal's normal temperature, the mammal's normal temperature, and a temperature above the mammal's normal temperature.

76. The method of claim 30 wherein the predetermined-desired temperature is selected from the group consisting of a temperature below the mammal's normal temperature, the mammal's normal temperature, and a temperature above the mammal's normal temperature.

77. The device of claim 64 wherein the blanket has a plurality of channels.

78. The device of claim 64 wherein the blanket has a plurality of apertures directing the desired medium in the direction of the mammal.

79. The device of claim 64 wherein the outlet source directs the desired medium under a blanket.

80. The device of claim 64 wherein the outlet source directs the desired medium to a mattress.

81. The device of claim 64 wherein the outlet source directs the desired medium to a mattress pad.

82. The device of claim 54 wherein the blanket has a plurality of channels.

83. The device of claim 54 wherein the blanket has a plurality of apertures directing the desired medium in the direction of the mammal.

84. The device of claim 54 wherein the outlet source directs the desired medium under a blanket.

~~85~~ 69. The device of claim ~~54~~ 56 wherein the outlet source directs the desired medium to a mattress.

~~86~~ 70. The device of claim ~~54~~ 56 wherein the outlet source directs the desired medium to a mattress pad.

~~87~~ 71. The device of claim ~~54~~ 56 wherein the temperature-control device is a heat transfer unit with a temperature-measurement instrument.

~~88~~ 72. The device of claim ~~54~~ 56 wherein the outlet source directs the desired medium into a blanket.